

Concept of Operations Storyboarding Tool, Phase II

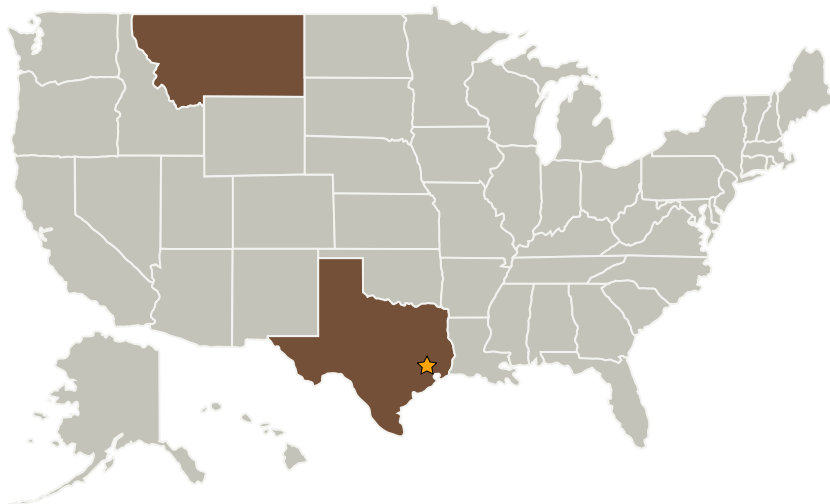
Completed Technology Project (2006 - 2008)



Project Introduction

The purpose of this project is to develop a storyboard tool to assist with the generation, verification, and refinement of storyboard information and its subsequent translation into model data for systems analysis and design tools. The most important contribution is an improved communication of the concept of operation between prospective customers and system developers. It addresses the difficulty of communicating highly technical information among specialized engineering groups so that the concept of operations illustrated by the storyboard accommodates the consideration of context of use, user task performance, and effective application of new technologies. This difficulty is especially pronounced when the user's tasks are unusual (space operations) and the technology to support the task is novel (autonomous software with which humans interact and monitor). Communication is enhanced by focusing on the common language of storyboard sketches and related categories of information describing them. The storyboard tool will help authors manage versions of storyboards to track alternate approaches for human task support and to maintain libraries of storyboards from previous systems. After assisting with the creation of storyboards and refining them in concurrent engineering sessions, the tool will assist in translating the storyboard information into data forms importable by analysis tools used by NASA systems engineers.

Primary U.S. Work Locations and Key Partners



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission
Directorate (STMD)

Lead Center / Facility:

Johnson Space Center (JSC)

Responsible Program:

Small Business Innovation
Research/Small Business Tech
Transfer

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Organizations Performing Work	Role	Type	Location
★ Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas
S&K Technologies, Inc.	Supporting Organization	Industry	St. Ignatius, Montana

Primary U.S. Work Locations	
Montana	Texas

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.5 Mission Architecture, Systems Analysis and Concept Development
 - └ TX11.5.2 Tools and Methodologies for Performing Systems Analysis